

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/003225

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' H01L21/336, G06K19/07, 19/077, 19/10, G11C17/12, H01L21/20, 27/10, 29/786

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' H01L21/336, G06K19/07, 19/077, 19/10, G11C17/12, H01L21/20, 27/10, 29/786

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996

Published unexamined utility model applications of Japan 1971-2005

Registered utility model specifications of Japan 1996-2005

Published registered utility model applications of Japan 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 1997/034222 A1(SINGLE CHIP SYSTEM CORPORATION), 1997.09.18, Column 12, lines 1-11, fig.3 & US 5856788 A & JP 2000-513841 A	1-23
Y	US 2003/0160715 A1(MAEDA et al.), 2003.08.28, Paragraphs [0146]-[0154], fig.1 & DE 10025213 A1 & 2001-007290 A	1-23
Y	JP 2003-059831 A(SEMICONDUCTOR ENERGY LABORATORY CO., LTD.), 2003.02.28, Paragraph [0097], fig1 & US 2004/0106237 A1	1-23
Y	JP 60-153156 A(TOSHIBA CORPORATION), 1985.08.12, Page 5, lower left column, Line 6 - page 6, upper left column, line 9, fig.7(Family : none)	4-5, 7-10, 13, 16-17, 20, 23

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

25.05.2005

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